

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L1    | 2     | WO-0129875-\$ did. JP-07085836-\$ did.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/04 05:11 |
| L2    | 12    | ((5397894) or (6124592) or (20020092980) or (6483109) or (6653622) or (20040155180) or (6800851) or (20040245448) or (6858840) or (6924478) or (6958472) or (7193207)).PN. | US-PGPUB;<br>USPAT  | OR               | OFF     | 2010/03/04 05:13 |
| L3    | 231   | ((LI) near2 (DING)).INV.   | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:19 |
| L6    | 3     | 3 and (electron near3 dissociat\$4) and ((switch\$4 dit (digital near2 trapping near2 field) discrete) with (voltage potential bias))                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:22 |
| L7    | 3     | 3 and (electron near3 dissociat\$4)  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:23 |
| L8    | 16    | (shimadzu adj research adj laboratory).as.   | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:24 |
| L9    | 5632  | (250/281,282,283,288,290,293).CCLS.  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2010/03/04 05:29 |
| L10   | 339   | 9 and ((electron near3 dissociat\$4) EID ECD (electron near2 capture near2 dissociat\$4))  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:32 |
| L12   | 108   | 10 and (switch\$4 discrete rectangular square) with (voltage potential bias)   | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:34 |
| L13   | 13    | 12 and ((electron particle) with trap\$4 with (voltage potential)) same (switch\$4 discrete rectangular square)  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:36 |
| L14   | 17    | 10 and ((electron particle) with trap\$4 with (voltage potential)) same (switch\$4 discrete rectangular square)  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:37 |
| L15   | 4     | 14 not 13  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:38 |
| L16   | 57832 | ((electron near3 dissociat\$4) EID ECD (electron near2 capture near2 dissociat\$4))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/04 05:39 |
| L17   | 23    | 16 and ((electron particle) with trap\$4 with (voltage potential)) same (switch\$4 discrete rectangular square)  | US-PGPUB;<br>USPAT  | OR               | ON      | 2010/03/04 05:39 |
| L19   | 908   | ((electron near3 dissociat\$4) EID ECD) with (kinetic energy)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/04 05:51 |

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| L20 | 46   | 19 and ((electron particle) with trap\$4) same (switch\$4 discrete rectangular square)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 05:52 |
| L21 | 27   | 20 and (ring end?cap endcap cap hyperbolic) near2 electrode  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 05:52 |
| L22 | 67   | 19 and (ring end?cap endcap cap hyperbolic) with electrons   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:16 |
| L23 | 41   | 22 and (kinetic energy) with dissociat\$4 with electrons   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:17 |
| L24 | 27   | 23 not 21  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:17 |
| L26 | 711  | (3d three?dimensional paul) near2 (ion adj trap)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:22 |
| L27 | 42   | 26 and (electrons with ring)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:22 |
| L28 | 2    | 26 and (electrons with ring with (aperture hole slit orifice) with (enter entrance inject \$4))                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:23 |
| L29 | 1622 | (kinetic energy) with dissociat\$4 with electrons  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:53 |
| L30 | 134  | 29 and ((switch\$4 rectangular square) with (voltage waveform wave wave?form (wave adj form) potential bias)) same (electrons) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:55 |

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| L31 | 34   | 30 and ((electron near3 dissociat\$4) El D ECD (electron near2 capture near2 dissociat\$4))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 06:55 |
| L32 | 605  | ((electron near3 dissociat\$4) El D ECD (electron near2 capture near2 dissociat\$4)).clm.    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 07:19 |
| L33 | 12   | (((kinetic energy) with dissociat\$4 with electrons)) and (ion near2 (trap\$4 stor\$4)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 07:20 |
| L34 | 2290 | (ion near2 (trap\$4 stor\$4)).clm.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 07:23 |
| L35 | 75   | 32 and 34  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 07:23 |
| L36 | 21   | 35 and (switch\$4 rectangular discrete square).clm.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/04 07:23 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query   | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-------------|------------------|---------|------------------|
| L37   | 83   | (250/281,282,283,288,290,293).OCLS.  | UPAD        | OR               | OFF     | 2010/03/04 07:30 |
| L38   | 8    | 37 and ((electron near3 dissociat\$4) El D ECD (electron near2 capture near2 dissociat\$4))                                    | USPAT; UPAD | OR               | ON      | 2010/03/04 07:30 |
| L39   | 6734 | ((electron near3 dissociat\$4) El D ECD (electron near2 capture near2 dissociat\$4))   | USPAT; UPAD | OR               | ON      | 2010/03/04 07:31 |
| L41   | 6207 | (ion near2 (trap\$4 stor\$4))  | USPAT; UPAD | OR               | ON      | 2010/03/04 07:31 |
| L42   | 255  | 39 and 41  | USPAT; UPAD | OR               | ON      | 2010/03/04 07:31 |
| L43   | 12   | 42 and ((switch\$4 rectangular square) with (voltage waveform wave wave?form (wave adj form) potential bias)) same (electrons) | USPAT; UPAD | OR               | ON      | 2010/03/04 07:32 |
| L44   | 139  | 41 and ((switch\$4 rectangular square) with (voltage waveform wave wave?form (wave adj form) potential bias)) same (electrons) | USPAT; UPAD | OR               | ON      | 2010/03/04 07:36 |

|     |    |  |                |    |    |                     |
|-----|----|--|----------------|----|----|---------------------|
| L45 | 10 | 44 and (kinetic energy) with dissociat\$4 with electrons | USPAT;<br>UPAD | OR | ON | 2010/03/04<br>07:36 |
|-----|----|--|----------------|----|----|---------------------|

3/4/2010 9:20:58 AM

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